

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	("4147157.pn.").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/22 17:07
S2	1	"4315163".pn.	USPAT	OR	OFF	2007/03/22 17:08
S3	1	"4147157".pn.	USPAT	OR	OFF	2007/03/22 17:08
S4	0	"437308".pn.	USPAT	OR	OFF	2007/03/22 17:09
S5	1	"4373308".pn.	USPAT	OR	OFF	2007/03/22 17:09
S6	1	"6630612".pn.	USPAT	OR	OFF	2007/03/22 17:10
S7	1	"6630622".pn.	USPAT	OR	OFF	2007/03/26 11:28
S8	1	konold with annemarie	USPAT	OR	OFF	2007/03/29 13:15
S9	1	"4315163".pn.	USPAT	OR	OFF	2007/03/26 11:27
S10	1	(aluminum or Al) and S9	USPAT	OR	OFF	2007/03/26 11:28
S11	7640	(aluminum or Al) and "L6"	USPAT	OR	OFF	2007/03/26 11:28
S12	3107426	(aluminum or Al) and "6"	USPAT	OR	OFF	2007/03/26 11:28
S13	1	"6630612".pn.	USPAT	OR	OFF	2007/03/26 11:28
S14	1	(aluminum or Al) and S13	USPAT	OR	OFF	2007/03/26 11:28
S15	1	"6630622".pn.	USPAT	OR	OFF	2007/03/26 11:28
S16	1	(aluminum or Al) and S15	USPAT	OR	OFF	2007/03/26 11:39
S17	0	(membrane) and S15	USPAT	OR	OFF	2007/03/26 11:39
S18	0	(waterproof) and S15	USPAT	OR	OFF	2007/03/26 12:35
S19	0	(cement) and S15	USPAT	OR	OFF	2007/03/26 16:08
S20	1	"6630622".pn.	USPAT	OR	OFF	2007/03/26 16:08
S21	1	(plate) and S20	USPAT	OR	OFF	2007/03/27 15:55
S22	1	"6630622".pn.	USPAT	OR	OFF	2007/03/27 15:55
S23	1	(aluminum or Al) and S22	USPAT	OR	OFF	2007/03/27 15:56
S24	1	(rectangular frame) and S22	USPAT	OR	OFF	2007/03/27 16:20
S25	1	(photovoltaic grid) and S22	USPAT	OR	OFF	2007/03/27 16:22
S26	1	(radiator sheet) and S22	USPAT	OR	OFF	2007/03/27 16:58
S27	1	(conductively coupled) and S22	USPAT	OR	OFF	2007/03/27 17:01
S28	0	(waterproof) and S22	USPAT	OR	OFF	2007/03/27 17:02
S29	0	(seal) and S22	USPAT	OR	OFF	2007/03/27 17:07
S30	0	(membrane) and S22	USPAT	OR	OFF	2007/03/27 17:16

## EAST Search History

S31	3	membrane with waterproof and 136/246.ccls.	USPAT	OR	OFF	2007/03/27 17:24
S32	0	"4663495".ccls.	USPAT	OR	OFF	2007/03/27 17:23
S33	1	"4663495".pn.	USPAT	OR	OFF	2007/03/27 17:24
S34	1	"6606823".pn.	USPAT	OR	OFF	2007/03/29 13:55
S35	0	membrane with waterproof and 47/65.9.ccls.	USPAT	OR	OFF	2007/03/27 17:25
S36	1	(membrane with waterproof) and 47/65.9.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:25
S37	429	membrane with waterproof with roof	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:26
S38	20	"4147157".pn. "4315163".pn. "4373308.pn" "4392008".pn. "5293447".pn. "5522944".pn. "601812".pn. "6541693".pn. "6553729".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 12:50
S39	1	membrane and S38	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:31
S40	7	roof with membrane with waterproof with cement	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:49
S41	30	(roof\$ with membrane with waterproof\$) and cement and fiberglass	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 17:50

## EAST Search History

S42	1	"4315163".pn.	USPAT	OR	OFF	2007/03/28 14:19
S43	382818	"8" and screw	USPAT	OR	OFF	2007/03/28 14:20
S44	1	konold with annemarie	USPAT	OR	OFF	2007/03/28 14:20
S45	0	S44 and screw	USPAT	OR	OFF	2007/03/28 14:20
S46	1	S44 and (screw or fastener or tube or guide)	USPAT	OR	OFF	2007/03/28 14:25
S47	980	mounting with screw with tube	USPAT	OR	OFF	2007/03/28 14:26
S48	35	(mounting with screw with tube) and roof	USPAT	OR	OFF	2007/03/28 14:43
S49	0	S44 and (copper with quick)	USPAT	OR	OFF	2007/03/28 14:43
S50	0	S44 and (quick)	USPAT	OR	OFF	2007/03/28 14:44
S51	1	S44 and (copper)	USPAT	OR	OFF	2007/03/28 14:44
S52	0	S44 and (manifold)	USPAT	OR	OFF	2007/03/28 14:44
S53	0	S44 and raceway	USPAT	OR	OFF	2007/03/28 14:45
S54	3068	embedment	USPAT	OR	OFF	2007/03/28 15:46
S55	164	embedment and roof	USPAT	OR	OFF	2007/03/28 15:46
S56	0	"6606823".pn"	USPAT	OR	OFF	2007/03/28 15:50
S57	1	"6606823".pn.	USPAT	OR	OFF	2007/03/28 17:29
S58	0	S57 and embedment	USPAT	OR	OFF	2007/03/28 15:52
S59	0	47/65.9.ccls. and embedment	USPAT	OR	OFF	2007/03/28 16:05
S60	1	47/65.9.ccls. and solar	USPAT	OR	OFF	2007/03/28 16:07
S61	0	S57 and cement	USPAT	OR	OFF	2007/03/28 16:07
S62	0	S57 and fiberglass	USPAT	OR	OFF	2007/03/28 16:07
S63	0	S57 and fiberglas	USPAT	OR	OFF	2007/03/28 16:10
S64	570	136/291.ccls.	USPAT	OR	OFF	2007/03/28 16:10
S65	1	S64 and embedment	USPAT	OR	OFF	2007/03/28 16:11
S66	382	"111" and embedment	USPAT	OR	OFF	2007/03/28 16:14
S67	1	S64 and embedment	USPAT	OR	OFF	2007/03/28 16:11
S68	4550	(pv or photovoltaic or solar) and roof	USPAT	OR	OFF	2007/03/28 16:19
S69	352	S68 and cement	USPAT	OR	OFF	2007/03/28 16:19
S70	86	S69 and fiberglass	USPAT	OR	OFF	2007/03/28 16:40
S71	1	konold with annemarie	USPAT	OR	OFF	2007/03/28 17:02
S72	0	S71 and sheath	USPAT	OR	OFF	2007/03/28 17:02
S73	0	S71 and sheath\$	USPAT	OR	OFF	2007/03/28 17:17
S74	18	(lap with cement) and roof	USPAT	OR	OFF	2007/03/28 17:17
S75	0	S57 and solonoid	USPAT	OR	OFF	2007/03/28 17:30
S76	0	S57 and solenoid	USPAT	OR	OFF	2007/03/28 17:30

## EAST Search History

S77	555029	solenoid near[1] valve	USPAT	OR	OFF	2007/03/28 17:31
S78	3174	S77 and sprinkler	USPAT	OR	OFF	2007/03/28 17:30
S79	193	S78 and roof	USPAT	OR	OFF	2007/03/28 17:30
S80	23	S79 and solar	USPAT	OR	OFF	2007/03/28 17:30
S81	63048	solenoid with valve	USPAT	OR	OFF	2007/03/28 17:31
S82	1007	S81 and solar	USPAT	OR	OFF	2007/03/28 17:31
S83	123	S82 and roof	USPAT	OR	OFF	2007/03/29 09:47
S84	1	"5340391".pn.	USPAT	OR	OFF	2007/03/29 09:47
S85	67187	S84 and lap cement	USPAT	OR	OFF	2007/03/29 09:48
S86	67187	S84 and lap cement	USPAT	OR	OFF	2007/03/29 09:48
S87	1	S84 and "lap cement"	USPAT	OR	OFF	2007/03/29 09:53
S88	92707	lap cement	USPAT	OR	OFF	2007/03/29 09:54
S89	1	"lap cement"	USPAT	OR	OFF	2007/03/29 11:30
S90	236	solid with insulation with board	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/29 11:31
S91	21	S90 and roof	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/29 11:31
S92	167336	"8" and quick	USPAT	OR	OFF	2007/03/29 13:15
S93	1	konold with annemarie	USPAT	OR	OFF	2007/03/29 13:15
S94	0	S93 and quick	USPAT	OR	OFF	2007/03/29 13:16
S95	1050533	copper with quick with fit fit\$	USPAT	OR	OFF	2007/03/29 13:16
S96	12687	S95 and solar	USPAT	OR	OFF	2007/03/29 13:16
S97	1872	S96 and roof	USPAT	OR	OFF	2007/03/29 13:16
S98	642	S97 and pipe	USPAT	OR	OFF	2007/03/29 13:17
S99	400	S98 and radiat\$	USPAT	OR	OFF	2007/03/29 13:17
S100	4	"quick connect fit"	USPAT	OR	OFF	2007/03/29 13:18
S101	505	"quick connect fitting"	USPAT	OR	OFF	2007/03/29 13:18
S102	19	S101 and roof	USPAT	OR	OFF	2007/03/29 13:19

## EAST Search History

S10 3	6	S101 and solar	USPAT	OR	OFF	2007/03/29 13:41
S10 4	1	"6630622".pn.	USPAT	OR	OFF	2007/03/29 13:54
S10 5	1	"6630622".pn.	USPAT	OR	OFF	2007/03/29 13:54
S10 6	1	"6606823".pn.	USPAT	OR	OFF	2007/03/29 13:55
S10 7	0	S106 and quick	USPAT	OR	OFF	2007/03/29 13:55
S10 8	640443	quick connect	USPAT	OR	OFF	2007/03/29 13:55
S10 9	326	"quick connect fittings"	USPAT	OR	OFF	2007/03/29 14:22
S11 0	92	"quick connect fittings" and pipe	USPAT	OR	OFF	2007/03/29 14:22
S11 1	4	S110 and roof	USPAT	OR	OFF	2007/03/29 14:22
S11 2	15	S110 and cooling	USPAT	OR	OFF	2007/03/29 14:31
S11 3	0	S93 and manifold	USPAT	OR	OFF	2007/03/29 14:33
S11 4	8	plastic with wiring with raceway	USPAT	OR	OFF	2007/03/29 14:34
S11 5	5	(wiring with raceway) and (pv or solar or photovoltaic) and roof	USPAT	OR	OFF	2007/03/29 14:53
S11 6	0	(plastic with wiring with raceway) and (pv or solar or photovoltaic) and roof	USPAT	OR	OFF	2007/03/29 14:53
S11 7	0	(plastic with wiring with raceway) and (pv or solar or photovoltaic)	USPAT	OR	OFF	2007/03/29 14:53
S11 8	8	(plastic with wiring with raceway)	USPAT	OR	OFF	2007/03/29 15:00
S11 9	0	"quick-connect snap-in electrical connector plug"	USPAT	OR	OFF	2007/03/29 15:00
S12 0	1	"quick-connect" with "snap-in" with electrical with connector	USPAT	OR	OFF	2007/03/29 15:37
S12 1	1	S93 and rain	USPAT	OR	OFF	2007/03/29 15:42
S12 2	1	"6606823".pn.	USPAT	OR	OFF	2007/03/29 15:42
S12 3	0	S122 and rain	USPAT	OR	OFF	2007/03/29 15:42

## EAST Search History

S12 4	1	S122 and water	USPAT	OR	OFF	2007/03/29 16:00
S12 5	1	S122 and sprinkler	USPAT	OR	OFF	2007/03/29 16:03
S12 6	0	S125 and solenoid	USPAT	OR	OFF	2007/03/29 16:19
S12 7	1	"6820439".pn.	USPAT	OR	OFF	2007/03/29 16:19
S12 8	1	S127 and solenoid	USPAT	OR	OFF	2007/03/29 16:24
S12 9	1	S127 and "on/off"	USPAT	OR	OFF	2007/03/29 16:24
S13 0	1	S129 and (solenoid)	USPAT	OR	OFF	2007/03/29 16:34
S13 1	1	S93 and copper	USPAT	OR	OFF	2007/03/29 16:45
S13 2	1	S93 and tube	USPAT	OR	OFF	2007/03/29 16:45
S13 3	0	S93 and (mounting with tube)	USPAT	OR	OFF	2007/03/29 16:45
S13 4	1	S93 and (mounting)	USPAT	OR	OFF	2007/03/29 16:58
S13 5	170	guide with tube with screw and fastening	USPAT	OR	OFF	2007/03/29 16:58
S13 6	980	mounting with screw with tube	USPAT	OR	OFF	2007/03/30 09:44
S13 7	35	roof and (mounting with screw with tube)	USPAT	OR	OFF	2007/03/30 09:49
S13 8	0	tube and "292"/\$.ccls	USPAT	OR	OFF	2007/03/30 09:49
S13 9	885	tube and "292"/\$.ccls.	USPAT	OR	OFF	2007/03/30 09:49
S14 0	885	tube and "292"/\$.ccls.	USPAT	OR	OFF	2007/03/30 09:49
S14 1	1	(tube with guide with screw) and "292"/\$.ccls.	USPAT	OR	OFF	2007/03/30 09:50
S14 2	91	(tube with guide ) and "292"/\$.ccls.	USPAT	OR	OFF	2007/03/30 09:50
S14 3	40	(screw with enclosure) and "292"/\$.ccls.	USPAT	OR	OFF	2007/03/30 09:51
S14 4	157	(screw with guide) and "292"/\$.ccls.	USPAT	OR	OFF	2007/03/30 09:51
S14 5	5998	(screw near[2] guide\$) and "292"/\$.ccls.	USPAT	OR	OFF	2007/03/30 09:51

## EAST Search History

S14 6	6	(screw ADJ guide\$) and "292"/\$. ccls.	USPAT	ADJ	OFF	2007/03/30 09:58
S14 7	3	(screw ADJ tube\$) and "292"/\$.ccls.	USPAT	ADJ	OFF	2007/03/30 10:59
S14 8	1	"4372292".pn. and roof	USPAT	ADJ	OFF	2007/03/30 10:54
S14 9	1	"3647252".pn. and screw	USPAT	ADJ	OFF	2007/03/30 10:55
S15 0	1	"6820439".pn. and temperature	USPAT	ADJ	OFF	2007/03/30 11:00
S15 1	1	"6820439".pn. and sensor	USPAT	ADJ	OFF	2007/03/30 11:45
S15 2	1	konold with annemarie	USPAT	OR	OFF	2007/03/30 11:45
S15 3	0	S152 and (thin with film)	USPAT	ADJ	OFF	2007/03/30 11:46
S15 4	1052	(solar or photovoltaic or pv) and (thin with film with vacuum)	USPAT	ADJ	OFF	2007/03/30 11:46
S15 5	639	(solar or photovoltaic or pv) and (thin with film with vacuum with deposit\$)	USPAT	ADJ	OFF	2007/03/30 11:46
S15 6	0	(solar or photovoltaic or pv) and (thin with film with vacuum with deposit\$ with vinyl with clear)	USPAT	ADJ	OFF	2007/03/30 11:47
S15 7	0	(solar or photovoltaic or pv) and (thin with film with vacuum with deposit\$ with vinyl)	USPAT	ADJ	OFF	2007/03/30 11:47
S15 8	142	(solar or photovoltaic or pv) and (thin with film with vacuum with deposit\$) and vinyl	USPAT	ADJ	OFF	2007/03/30 12:23
S15 9	0	(solar or photovoltaic or pv) and (thin with film with vacuum with deposit\$) and (vinyl with clear)	USPAT	ADJ	OFF	2007/03/30 11:47
S16 0	1	S152 and tracking	USPAT	ADJ	OFF	2007/03/30 12:00
S16 1	1	S152 and tracking and fresnel	USPAT	ADJ	OFF	2007/03/30 12:00
S16 2	6	(solar or photovoltaic or pv) and (thin with film with vacuum with deposit\$) and (vinyl with substrate\$)	USPAT	ADJ	OFF	2007/03/30 12:39
S16 3	1	"5507880".pn.	USPAT	ADJ	OFF	2007/03/30 12:39
S16 4	1	S163 and vinyl	USPAT	ADJ	OFF	2007/03/30 12:41

## EAST Search History

S16 5	2728	vinyl with clear	USPAT	ADJ	OFF	2007/03/30 12:42
S16 6	0	vinyl with clear with (vacuum ADJ deposit\$)	USPAT	ADJ	OFF	2007/03/30 12:42
S16 7	3	vinyl with clear with (vacuum with deposit\$)	USPAT	ADJ	OFF	2007/03/30 12:43
S16 8	7041	vinyl with substrate	USPAT	ADJ	OFF	2007/03/30 12:43
S16 9	260	vinyl ADJ substrate	USPAT	ADJ	OFF	2007/03/30 12:43
S17 0	0	S159 and (solar or pv or photovoltaic)	USPAT	ADJ	OFF	2007/03/30 12:43
S17 1	6	(vinyl ADJ substrate) and solar	USPAT	ADJ	OFF	2007/03/30 12:44
S17 2	10	(vinyl ADJ substrate) and (solar or pv or photovoltaic)	USPAT	ADJ	OFF	2007/03/30 12:46
S17 3	1416	flexible with solar	USPAT	ADJ	OFF	2007/03/30 12:46
S17 4	18	(vinyl ADJ substrate)and (PV or photovoltaic or solar)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2007/03/30 12:49
S17 5	0	vinyl and 136/?ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2007/03/30 12:52
S17 6	656339	vinyl or PVC and 136/?ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2007/03/30 12:52
S17 7	0	((vinyl or PVC) adj substrate) and 136/?ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2007/03/30 12:52



## EAST Search History

S17 8	452	PVC adj substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2007/03/30 12:52
S17 9	18	S178 and (solar or PV or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2007/03/30 12:58
S18 0	2	"5507880".pn. and vinyl	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2007/03/30 12:58
S18 1	20	"4147157".pn. "4315163".pn. "4373308.pn" "4392008".pn. "5293447".pn. "5522944".pn. "601812".pn. "6541693".pn. "6553729".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 11:50
S18 2	1	S181 and vinyl	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 13:31
S18 3	0	S181 and (vinyl with vacuum)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 11:52
S18 4	20	"4147157".pn. "4315163".pn. "4373308.pn" "4392008".pn. "5293447".pn. "5522944".pn. "601812".pn. "6541693".pn. "6553729".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 13:31

## EAST Search History

S18 5	0	S184 and PVC	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 13:31
S18 6	2	S184 and EVA	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 14:00
S18 7	2	S186 and substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 14:03
S18 8	493	substrate adj vinyl	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 14:05
S18 9	11	S188 and (pv or photovoltaic or solar)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 14:04
S19 0	1	substrate adj "4"\$vinyl	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 14:08
S19 1	940	substrate adj \$4vinyl\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 14:11

## EAST Search History

S19 2	28	S191 and (solar or pv or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 14:14
S19 3	1045	substrate adj \$6vinyl\$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 14:16
S19 4	31	S193 and (solar or pv or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 14:17
S19 5	1267	substrate adj (\$6vinyl\$6 or PVC)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 14:21
S19 6	43	S195 and (solar or pv or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 14:22
S19 7	33073	substrate with (\$6vinyl\$6 or PVC)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 14:21
S19 8	1291	S197 and (solar or pv or photovoltaic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 14:37

## EAST Search History

S19 9	2	"5420043".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 14:38
S20 0	1	S199 and thin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 14:41
S20 1	1	S199 and vacuum	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 15:08
S20 2	2281695	S199 and transparent substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 15:09
S20 3	2281695	S199 and transparent substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 15:09
S20 4	2281695	S199 and transparent substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 15:09
S20 5	2281695	"5420043".pn. and transparent substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 15:10

## EAST Search History

S20 6	2281695	"5420043".pn. and transparent substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 15:10
S20 7	2	"5420043".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 15:10
S20 8	1	S207 and "transparent substrate"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 15:10
S20 9	0	"2002061379"	USPAT	OR	OFF	2007/04/02 16:10
S21 0	1	"02061379"	USPAT	OR	OFF	2007/04/02 16:12
S21 1	0	"2002061379"	USPAT	OR	OFF	2007/04/02 16:12
S21 2	0	"2002/061379"	USPAT	OR	OFF	2007/04/02 16:12
S21 3	0	"20020061379"	USPAT	OR	OFF	2007/04/02 16:13
S21 4	2	"2002/0061379"	USPAT	OR	OFF	2007/04/02 16:14
S21 5	1	"2002/0061379 A1"	USPAT	OR	OFF	2007/04/02 16:14
S21 6	0	2002/0061379.did.	USPAT	OR	OFF	2007/04/02 16:14
S21 7	0	"20020061379".did.	USPAT	OR	OFF	2007/04/02 16:54
S21 8	155	ort.in.	USPAT	OR	OFF	2007/04/02 16:55
S21 9	141927	S218 and solar collector	USPAT	OR	OFF	2007/04/02 16:55
S22 0	3	ort.in. and "solar collector"	USPAT	OR	OFF	2007/04/02 17:06
S22 1	45	Zickell "2002061379"	USPAT	OR	OFF	2007/04/02 17:06

## EAST Search History

S22 2	0	Zickell and "2002061379"	USPAT	OR	OFF	2007/04/02 17:06
S22 3	38	Zickell and roof	USPAT	OR	OFF	2007/04/02 17:06
S22 4	16	Zickell and roof and membrane	USPAT	OR	OFF	2007/04/02 17:06
S22 5	51139	Zickell and roof and membrane and fibrous mat	USPAT	OR	OFF	2007/04/02 17:06
S22 6	5	Zickell and roof and membrane with fibrous with mat	USPAT	OR	OFF	2007/04/03 10:30
S22 7	1	"4372292".pn.	USPAT	OR	OFF	2007/04/03 10:31
S22 8	0	S227 and disposal	USPAT	OR	OFF	2007/04/03 10:31
S22 9	0	S227 and waste	USPAT	OR	OFF	2007/04/03 10:31
S23 0	1	"5340391".pn.	USPAT	OR	OFF	2007/04/03 10:31
S23 1	1	S230 and disposal	USPAT	OR	OFF	2007/04/03 11:20
S23 2	1	"4372292".pn.	USPAT	OR	OFF	2007/04/03 11:54
S23 3	3	fiberglass with asphalt with sheathing	USPAT	OR	OFF	2007/04/03 12:20
S23 4	1	"4866897".pn.	USPAT	OR	OFF	2007/04/03 13:15
S23 5	1	asphalt and S234	USPAT	OR	OFF	2007/04/03 12:11
S23 6	0	aspha8 and roof	USPAT	OR	OFF	2007/04/03 12:12
S23 7	0	S234 and roof	USPAT	OR	OFF	2007/04/03 12:12
S23 8	0	S234 and roof	USPAT	OR	OFF	2007/04/03 12:12
S23 9	110	fiberglass and asphalt and sheathing	USPAT	OR	OFF	2007/04/03 12:20
S24 0	81	S239 and roof	USPAT	OR	OFF	2007/04/03 12:20
S24 1	343	fiberglass with asphalt	USPAT	OR	OFF	2007/04/03 12:20
S24 2	28	S240 and S241	USPAT	OR	OFF	2007/04/03 12:30
S24 3	3	sheath\$ with asphalt\$ with fiberglass\$	USPAT	OR	OFF	2007/04/03 12:40

## EAST Search History

S24 4	46	sheath\$ and asphalt\$ with fiberglass\$	USPAT	OR	OFF	2007/04/03 12:40
S24 5	20	"4147157".pn. "4315163".pn. "4373308.pn" "4392008".pn. "5293447".pn. "5522944".pn. "601812".pn. "6541693".pn. "6553729".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 12:51
S24 6	1	S245 and asphalt	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 12:51
S24 7	0	S245 and asphalt and fiberglass	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 12:52
S24 8	2	"4866897".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 12:58
S24 9	0	S248 and roof	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 12:54
S25 0	479	sheath\$ with asphalt\$	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 12:58
S25 1	6	S250 with fiberglass\$	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/03 12:59

## EAST Search History

S25 2	45	sheath\$ and fiberglass with asphalt	USPAT	OR	OFF	2007/04/03 13:07
S25 3	1993	sheath and fiberglass	USPAT	OR	OFF	2007/04/03 13:15
S25 4	110	S253 and asphalt	USPAT	OR	OFF	2007/04/03 13:15
S25 5	10	S254 and roof	USPAT	OR	OFF	2007/04/03 13:21
S25 6	232	asphalt with fiberglass and roof	USPAT	OR	OFF	2007/04/03 13:21
S25 7	54	asphalt with fiberglass with sheet and roof	USPAT	OR	OFF	2007/04/03 13:24
S25 8	0	"4250221".pn. and sheath	USPAT	OR	OFF	2007/04/03 13:24
S25 9	0	"4250221".pn. and sheath\$	USPAT	OR	OFF	2007/04/03 13:24
S26 0	1	"4250221".pn.	USPAT	OR	OFF	2007/04/03 13:43
S26 1	1	"4250221".pn. and asphalt	USPAT	OR	OFF	2007/04/03 13:43